

AUTHOR: Krainskiy, L.I.; Suslov, K.V. SOV-90-58-8-9/9

TITLE: Wear and damage to the Parts and Units of the M-601 Engine  
(Ob iznosh i povrezhdeniyakh detalей i uzlov dvigatelya M-601)

PERIODICAL: Energeticheskiy byulleten', 1958, Nr 8, pp 27 - 32 (USSR)

ABSTRACT: The M-601 engine ( a modification of the M-50 engine ), in conjunction with the SA-700 power drive equipment, is now being introduced extensively into oilfields for drilling, pumping etc, as a replacement for less powerful drives, such as those with B2, 8S230r engines. The article takes each part in turn and lists the damage, flaws and wear that may develop, making recommendations for the repair and maintenance of the engine. There are 4 photos, 1 table and 1 diagram.

1. Engines--Maintenance

Card 1/1

PETROV, V.P., starshiy inzh.; LANKIN, G.N., inzh.; TITOV, V., inzh.;  
SUSLOV, L., zhurnal'st; PROSKURIN, A.N., zhurnal'st; ITUNINA,  
R.G., red.; SERADZSKAYA, P.G., tekhn.red.

[Nikolai Manukovskii's new initiative] Novyi pochin Nikolaia  
Manukovskogo. Voronezh, Voronezhskoe knizhnoe izd-vo, 1960.  
201 p. (MIRA 14:1)

(Farm mechanization)

SUSLOV, L., inzh.; SPILOV, N., inzh.; SHUMAKHER, L., inzh.

Rural construction requires precast elements. Zhil. stroi.  
no.10: 28-29 0 '61. (MIR 14:10)  
(Precast concrete construction)

GROSS, Ye.F.; SUSLINA, L.G.; LIVSHITS, A.I.

Reflection and luminescence of zinc telluride single crystals. Fiz. tver.  
tela 5 no.3:801-806 M. '63. (MIRA116:4)

1. Fiziko-tekhnicheskiy institut imeni A.F.Ioffe AN SSSR, Leningrad.  
(Zinc telluride crystals--Spectra) (Crystals--Models)

SUSLOV, L.V., irzh.

Determining the optimum operating speed for the rotor of the  
potato digger. Mekh.i elek.sots.sel'khoz. 19 no.5:54-56 '61.  
(MIRA 14:10)

1. Moskovskaya sel'skokhozyaystvennaya akademiya imeni K.A.Timiryazeva.  
(Potato diggers)

SUSLOV, L.Ye.

Automatic calculating and printing accelerograph. Trudy KazNIGMI  
no.11:176-177 '59. (MIRA 13:6)  
(Accelerometers)

SUSLOV, L.Ye.

Double secular cycles of solar activity and their geophysical  
manifestations. Trudy KazNIGMI no.19:134-146 '63. (MIRA 17:3)

SOV/112-58-1-1316

Translation from: Referativnyy zhurnal, Elektrotehnika, 1958, Nr 1, p 197 (USSR)

AUTHOR: Suslov, M. O.

TITLE: Universal Measuring Instrument (Universal'nyy izmeritel'nyy pribor)

PERIODICAL: Nauk. zap. Kam'yanets' - Podil'sk. derzh. ped. in-t, 1956, Nr 2, pp 53-58

ABSTRACT: A universal instrument is described that can produce: a rectified voltage of 0-12 v and 0-300 v, modulated oscillations 75 kc to 20 mc with percentage modulation of 0-100%, 1,000-cps oscillations with continuously regulated output; the instrument can measure resonance frequency of an oscillatory circuit, capacitance from a few  $\mu\text{f}$  up to 10  $\mu\text{f}$ , capacitor leakage, resistances from 1 ohm to 10 megohms, DC current in the range of 3-15-150-300 ma, DC voltage in the range of 3-15-150-300 v, AC voltage in the range of 15-300-600 v, and can check emission of certain tube types. Only 4 tubes are used in the instrument.

S. D. D.

AVAILABLE: Library of Congress

Card 1/1

1. Oscillator circuits--Frequency measurement
2. Instruments--Design
3. Instruments--Performance.



- |   |  |  |
|---|--|--|
| 1. SUSLOV, M. P.  |  |  |
| 2. USSR (600)   |  |  |
| 4. Mixing Machinery   |  |  |
| 7. Equipment for asphalt-concrete mixing plant. Mekh stroi. 9 no. 9 , 1952. |  |  |

- |  |  |  |
|--|--|--|
| 9. <u>Monthly List of Russian Accessions</u> , Library of Congress, <u>January</u> , 1953. Unclassified. |  |  |
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SUSLOV, M. P. Cand. Tech. Sci.

Dissertation: "Certain Problems of Automation of Pump Installations." All-Union Sci Res Inst of Water Supply, Sewerage, Hydraulic Structures and Engineering Hydrogeology --VODGEC, 27 May 47.

SO: Vechernyaya Moskva, May, 1947 (Project #17836)

U.S.S.R.

Automation of industrial water-supply systems Moskva, gos. izd-vo  
stroit. lit-ry, 1949. 151 p. (50-15410)

TD353.S85

SUSLOV, M. I.

Suslov, M. I. and Zaydman, Ya. A. - "An automatic pumping station for deep drainage", Ger. Khoz-vo Moskv, 1949, No. 1, p. 17-22.

SO: U-3042, 11 March 53, (Ietopis 'Zhurnal 'nykh Statey, No. 8, 1949).

SUSLOV, M.P., kandidat tekhnicheskikh nauk.

More efficient water supply for multi-storied houses. Gor.khoz.Mosk. 25  
no.9:21-23 S '51. (MIRA 6:11)

(Pumping machinery) (Water--Distribution)

SUSLOV, M.P.

Automatic regulator of filtration rate. Vod.1 santekh. no.6:19-28  
Je '57. (MIRA 10:7)

(Filters and filtration) (Automatic control)

PERTSOV, V.; SUSLOV, M., starshiy nauchnyy sotrudnik.

Automatic controller of the rate of filtration. Zhil-kom.khoz. 7  
no.4:14-17 '57. (MIRA 10:7)

1. Upravlyayushchiy trestom "Vodokanalizatsiya," g. Ivanovo (for  
Pertsov). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut vodo-  
snabzheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i  
inzhenernoy gidrogeologii (for Suslov).  
(Water--Purification) (Automatic control)

AUTHOR: Suslov, M.P.

SOV/133-58-8-28/30

TITLE: On the Problem of Automation and Dispatcher Control of the Water Supply in Metallurgical Works (K voprosu o dispetcherizatsii i avtomatizatsii vodosnabzheniya metallurgicheskogo zavoda)

PERIODICAL: Stal', 1958, Nr 8, pp 759 - 763 (USSR)

ABSTRACT: The problem of the centralised control and automation of the supply and distribution of water in integrated iron and steel works is discussed. It is concluded that the centralised control of the supply and distribution of water can be attained at present with apparatus produced in Russia.  
There are 6 figures.

1. Industrial plants--Water supply

Card 1/1



SOV-90-58-9-6/8

AUTHOR: Suslov, M.P.

TITLE: The Dispatching and Automation of Water Supply Systems in Oil Refineries (Dispetcherizatsiya i avtomatizatsiya sistem vodosnabzheniya neftezavodov)

PERIODICAL: Energeticheskii byulleten', 1958, Nr 9, pp 20-26 (USSR)

ABSTRACT: To bring the water supply systems of oil refineries into line with the production processes, a great degree of remote control and automation is needed. Apparatus for creating a single, centralized control system is produced by the Leningrad "Elektropul't" Plant in the form of the VRT-53, for remote control, and the UTB-55 for remote measuring. The VRT-53 works on the time-pulse system using reverse step selectors as distributors, the mechanical action to be performed being determined by the length of the pause between two D.C. Pulses transmitted from the central dispatching point. Four modifications of the VRT-53 are listed. An example for a remote control system for use in the Groz-neftezavody is given, together with a skeleton outline for the lay-out of the basic units in the water supply system.

Card 1/2

SOV-90-58-9-6/8

The Dispatching and Automation of Water Supply Systems in Oil Refineries

A comparison of the various possible systems indicates that the best one would be a one-stage arrangement of control with full remote mechanization. All the basic units of the water supply system must be subjected to as complete a degree of automation as possible. The local telephone network should be used for the communications channel between the dispatching point and the control objects and in buildings where there is particular danger from gas the VODGEO automatic control apparatus should be fitted. There are 4 block diagrams, 2 tables and 3 Soviet references.

1. Refineries--Water supply
2. Petroleum--Processing

Card 2/2

28(1), 11(5)

AUTHOR: Suslov, M.P., Candidate of Technical Sciences SOV/119-58-12-2/13

TITLE: Apparatus for the Automation of Water Drainage Pump Stations in Shafts and Mines With Choke-Damp Danger  
(Apparatura dlya avtomatizatsii nasosnykh vodootlivnykh ustanovok v shakhtakh i rudnikakh, opasnykh po gazu)

PERIODICAL: Priborostroyeniye, 1958, Nr 12, pp 5-6 (USSR)

ABSTRACT: A number of special devices for water drainage from shaft installations exposed to choke-damp danger have been developed by the Vsesoyuznyy nauchno-issledovatel'skiy institut VODGEO (All-Union Scientific Research Institute VODGEO), which afterwards were examined by the MASHII. The tests yielded positive results. This kind of equipment has been developed for shaft installations where the ordinary RV equipment cannot be used. AYAP-300 centrifugal pumps are used in this type of plant. The automatic control system of the pumping plant is provided for the following operations:

- 1) An automatic starting and stopping of pumps in dependence on the water level in shafts.
- 2) Remote-controlled starting and stopping of pumping plants from the control rooms on the surface.

Card 1/3

SOV/119-58-12-2/13

Apparatus for the Automation of Water Drainage Pump Stations in Shafts and Mines  
With Choke-Damp Danger

3) Automatic stopping of broken down pumping plants and simultaneous starting of the reserve plant.

4) Automatic stopping of the pumping plant if the explosive gas concentration in the shafts exceeds the adjusted level of undangerous concentration.

5) Remote-controlled transmission of performance data of the individual parts of the plants. The plant is constructed explosion-proof in accordance with V2B and V3G. The individual parts of the plant are portrayed in cross sectional drawings and circuit diagrams are given. The following parts are described in detail:

Floater relay of the type MKU-48.

The cause of a breakdown is transmitted by means of signal relays.

The plant can be completely converted to remote control operation by manipulating two master switches. The automatic control apparatus located below the pumping plant is supplied through a cable of 2.5mm cross section of type KSRPG. The other cable lines are stranded into one comprehensive cable of type VKU-00 produced by the Konotopskiy zavod "Krasnyy metallist" (Konotop factory "Krasnyy metallist").

A contact manometer is used as a transducer in the control of the head of water, which is produced by the factory "Manometr". It is

Card 2/3

SOV/119-58-12-2/13

Apparatus for the Automation of Water Drainage Pump Stations in Shafts and Mines  
With Choke-Damp Danger

mounted in an explosion-proof case. The temperature of the ball bearings is measured with a special thermometer of the type EKT (range of 0 to 400°C). This is also mounted in an explosion-proof case. The blue-prints of the plant described are available at the Institut VNII-VODGEO. Write to: Moscow, G-131, Bol'shiye kochki, d.17a.-  
There are 6 figures.

Card 3/3

SUSLOV, M.P., kand. tekhn. nauk

Centralize control of  
no.12:4-6 D '59.  
(Water pipes)

water supply lines. Stroi.truboprov. 4  
(MIRA 13:5)  
(Remote control)

SUSLOV, M., starshiy nauchnyy sotrudnik

Automatic washing of filters in water-supply structures. Zhil.-komm.  
khoz. 9 no.8:3-4 '59. (MIRA 12:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut vodosnabzheniya,  
kanalizatsii, gidrotekhnicheskikh sooruzheniy i inzhenernoy gidro-  
logii.

(Filters and filtration) (Water-supply engineering)

SUSLOV, M. P.

Automatic washing of gravity and pressure filters and regeneration.  
Vod. i san. tekhn. no. 9:1-4 S '60. (MIRA 13:11)  
(Filters and filtration) (Water—Purification)



SUSLOV, M.P.

Telemechanization of water-supply systems with very long  
pipelines. Vod. i san. tekhn. no.2:22-24 F '61. (MIRA 14:7)  
(Water-supply engineering)  
(Remote control)

SUSLOV, M.P.

Automation of the washing of open and pressure filters and  
the regeneration of cation filters. Prom.energ. 16 no.9:23-  
27 S '61. (MIRA 14:8)

(Filters and filtration---Cleaning)

SUSLOV, M.P., inzh.

Redesigning the system of "reverse" water supply with  
automatic control. Vod. 1 san. tekhn. no.8:21-22 Ag '62.  
(MIRA 15:9)

(Automatic control)  
(Water-supply engineering)

SUSLOV, M., inzh.

Reconstruction of the chemical reagent stock in water purification  
plants. Zhil.-kom.khoz. 12 no.7:27-28 J1 '62. (MIRA 16:5)  
(Water Purification)

S/119/63/000/001/013/016  
D201/D308

AUTHOR:

Suslov, M.P.

TITLE:

Practical measurement of the thickness of ice forming at the inner walls of the mains water supply pipes

PERIODICAL:

Priborostroyeniye, no. 1, 1963, 25

TEXT:

This is the description of an instrument, developed at the VODGYeO Institute. The instrument is essentially a quartz stabilized oscillator with a capacitive pick-up connected in the tank circuit. The change in the capacity of the pick-up, which corresponds to the thickness of ice layer in the pipe, detunes the tank circuit. The change in the anode current is measured by a d.c. component compensated milliammeter in the anode circuit. The mechanical construction of the pick-up for a 300 mm pipe is given. There are 3 figures.

Card 1/1

S/068/63/000/001/001/004  
E071/E136

AUTHORS: Semenova, O.A., Shteyn, A.L., Kotovich, A.T.,  
and Suslov, M.P.

TITLE: Experiments on the production of sulphur free benzene

PERIODICAL: Koks i khimiya, no.1, 1963, 41-43

TEXT: In conjunction with the start of production of caprolactam on the Kemerovskiy khimicheskiy kombinat (Kemerovo Chemical Combine) the coking works were to develop the production of sulphur free benzene. On the basis of laboratory work, two batches of works' benzole containing 0.098-0.116% thiophene and 0.022-0.036% carbon disulphide were washed with 95% sulphuric acid (two washes), then with alkali and batch distilled. The yield on the initial benzole fraction was: sulphur free benzene 75.6%, nitration benzene 14.5%. Wash losses - 9%, distillation losses - 0.9%. Consumption of acid 287 kg/ton and of alkali 12.4/t of the benzole fraction. Laboratory tests on the purification of benzole from thiophene by its copolymerization with unsaturated compounds present in heavy benzole indicated that only low sulphur benzene can be obtained by this method. The removal of thiophene by

Card 1/2

Experiments on the production of ...

S/068/63/000/001/001/004  
L071/E136

washing with sulphuric acid with addition of cyclohexene (by-product in the production of caprolactam) was tried on a laboratory scale with satisfactory results. Using 20% of sulphuric acid and 1.85% of cyclohexene, practically complete removal of thiophene was obtained after 10 minutes of stirring. It is considered that rectification is the most rational method of removal of carbon disulphide. There are 4 tables.

ASSOCIATION: Kemerovskiy koksokhimicheskiy zavod  
(Kemerovo Coking Works)

Card 2/2

SUSLOV, M.P., kand.tekhn.nauk

Checking the formation of ice inside aqueducts. Vod.i san.tekh.  
no.4:5-8 Ap '63. (MIRA 16:4)

(Ice)

(Water pipes)



SUSLOV, M.P., kand.tekhn.nauk

Mechanization and automation of reagent shops. Prom. energ. 18 no.7:  
21-24 J1 '63. (MIRA 16:9)  
(Feed water purification)

SUSLOV, Mikhail Pavlovich

[Automating the water supply system in ferrous metallurgy]  
Avtomatizatsiia sistem vodosnabzheniia v chernoi metallurgii.  
Moskva, Metallurgii, 1965. 318 p. (MIRA 18:4)

Operation of the H-6 (bomber) from 1965

Operation of the H-6 (bomber) from 1965. 20 no. 2:26-28  
(MIRA 18:3)

SUSLOV, M.F., kand. tekhn. nauk

Automatic inleakage and its effect on the operation of a pump-  
ing station. Ved. i san. tekhn. no. 2:29-32 1964 (MIRA 18:2)

PROKOPCHUK, B.I.; IZRAILEV, L.M.; IL'IN, P.A.; LEONOV, B.N.; SUSOV, M.V.;  
KOSTRYUKOV, M.S.

Diamond potential of the Lena Valley; new diamond-bearing area  
in the northeastern part of the Siberian Platform. Trudy IAFAN  
AN SSSR Ser. geol. no.9:115-122 '63. (MIRA 16:12)

SUSLOV, N.

SUSLOV, N.

Following the example of the Gor'kiy people. Sov. profsoiuzy 5 no.9:  
49-50 8 '57. (MIRA 10:9)

(Moscow--Housing)

SIVERS, Arkadiy Petrovich; SUSLOV, Nikolay Aleksandrovich; ALEKSANDROVA,  
A.A., redaktor; KORUZEV, N.N., tekhnicheskiy redaktor.

[Fundamentals of radar] Osnovy radiolokatsii. Moskva. Izd-vo  
"Sovetskoe radio, 1956. 246 p. (MLRA 9:5)  
(Radar)

DITRIKH, Konstantin Feliksovich; SUSLOV, N.A., spetsred.; SANDLER, N.V.,  
red.izd-va; KOTLYAKOVA, O.I., tekhn.red.

[Radio receivers] Radiopriemnye ustroistva. Leningrad, Izd-vo  
"Morskoi transport," 1958. 395 p. (MIRA 12:1)  
(Radio--Receivers and reception)



SUSLOV, N A.

6(4); 7(7)

PHASE I BOOK EXPLOITATION

SOV/2850

Sivars, Arkadiy Petrovich, Nikolay Aleksandrovich Suslov, and  
Vasiliy Ignat'yevich Metel'skiy

Osnovy radiolokatsii (Fundamentals of Radar) Leningrad, Sudpromgiz,  
1959. 350 p. Errata slip inserted. 25,500 copies printed.

Scientific Ed.: L. D. Gol'dshteyn; Ed.: Ye. N. Shaurak; Tech. Ed.:  
N. V. Erastova.

PURPOSE: This book is intended for radio specialists and students of  
vuzes studying radar. It was approved by the Ministry of Higher  
Education, USSR, as a textbook for radio engineering departments  
of vuzes.

COVERAGE: The authors discuss basic principles of radar. They  
describe pulse, frequency and phase methods of ranging and  
explain methods of determining azimuth and elevation of objects.  
They also analyze errors in measuring coordinates by means of  
radar and discuss factors determining the operating range of

Card ~~1/9~~

Fundamentals of Radar

SOV/2850

radar systems. They discuss counter-radar measures and describe methods of transmitting radar information. Use of radar beacons, identification systems and systems for selecting moving objects are also discussed. Chapters II (except Sections 14 and 15), III (except Section 37), VI, VII and Section 45 of Chapter IV were written by N. A. Suslov; Chapter VIII, Section 37 of Chapter III, Introduction and Conclusion by A. P. Sivers; Chapter IX by V. I. Metel'skiy; Chapter I and Section 13 of Chapter III by A. P. Sivers and N. A. Suslov; Sections 14 and 15 of Chapter II, Chapter IV (except Section 45) and Chapter V by A. P. Sivers and V. I. Metel'skiy. The material is based largely on lectures delivered by the authors in 1950-1957. The authors thank V. V. Tikhomirov, Corresponding Member of the Academy of Sciences, USSR, for his help in preparing the manuscript. They also thank L. D. Gol'dshteyn for reviewing the text. There are 99 references, all Soviet (including 52 translations).

Card 2/9

9.4200

78151  
SOV/108-15-3-14/17

AUTHORS: Vazhenina, Z. P., and Suslov, N. A.  
TITLE: Calculation of Impulse Duration of a Phantatron  
PERIODICAL: Radiotekhnika, 1960, Vol 15, Nr 3, pp 75-77 (USSR)  
ABSTRACT: The purpose of the paper is to determine analytical relationships between the control voltage  $E_0$  and the duration of the output impulse  $\tau_u$  in the phantatron circuit given in Fig. 1.

Card 1/4

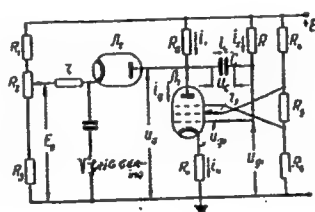


Fig. 1.

Calculation of Impulse Duration of a  
Phantatron

78151  
SOV/108-15-3-14/17

The voltage  $u_a$  is given by

$$u_a = [E_0 - \Delta U_{a1} + (\kappa' - 1)E_a + \kappa'E_{g0}] e^{-\frac{t}{\tau_e}} - (\kappa' - 1)E_a - \kappa'E_{g0}, \quad (11)$$

where  $\kappa' = \frac{R_a S}{1 + (S + S_e) R_a}$  and  $\tau_e = RC \left[ 1 + \kappa' + \frac{R_a}{R} \right]$

$\Delta U_{a1}$  is voltage jump at the anode at the start of operation;  $S$  and  $S_e$  are steepnesses of anode and screen currents, respectively; and  $E_{g0}$  is the cutoff voltage of the first grid. Figure 2 gives the voltage shape on the anode of the phantatron.

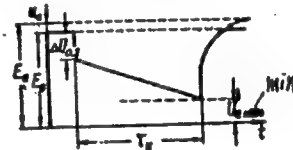


Fig. 2.

Card 2/4

Calculation of Impulse Duration of a  
Phantatron

78191  
SOV/108-15-3-14/17

When  $\tau_u \ll \tau_e$   $\tau_u$  becomes

$$\tau_u = \tau_e \frac{E_0 - \Delta U_{a1} - U_{a \min}}{E_0 - \Delta U_{a1} + (\kappa' - 1) E_a + \kappa' E_{g0}} \quad (13)$$

which can be further simplified into

$$\tau_u \approx RC \frac{E_0 - \Delta U_{a1} - U_{a \min}}{E_a} \quad (14)$$

when only the order of magnitude of the impulse duration is looked for. In Eqs. (13) and (14),  $U_{a \min}$  is given by

$$U_{a \min} = E_a - i_{a \min} R_a$$

The voltage jump at the anode at the start of operation  $\Delta U_{a1}$  may be calculated from

$$\Delta U_{a1} = \frac{\kappa' R (E_{g0} + U_{an}) + R E_0 + R U_{an} - (R + R_a) E_a}{(\kappa' + 1) R + R_a} \quad (19)$$

Card 3/4

Calculation of Impulse Duration of a  
Phantatron

78151  
SOV/108-15-3-14/17

where  $U_{kn}$  is cathode voltage in the state of rest. The  
values of  $i_{1 \max}$  may be found from tube reference sheets.  
There are 2 figures; and 3 Soviet references.

SUBMITTED: June 15, 1959

Uchestvitel'nyye chleny Nauchno-tekhnicheskogo Obshchestva  
radiotekhniki i elektrosvyazi imeni A. S. Popova.

Card 4/4

VAZHENINA, Zoya Pavlovna. Prinimal uchastiye SUSLOV, Nikolay  
Aleksandrovich; VOLKOVA, I.M., red.

[Phantastron generators; their theory, design, and calculation] Fantastromye generatory; teoriia, proektirovanie, raschet. Moskva, Sovetskoe radio, 1965. 174 p.  
(MIRA 18:12)

POPOV, N.V., inzh., retsenzent; PETUKHOV, P.Z., doktor tekhn.nauk,  
retsenzent; SUSLOV, N.I., inzh., red.; DUGINA, N.A., tekhn.  
red.; UVAROVA, A.F., tekhn.red.

[Developing the use of plastics in the manufacture of machines]  
Rasshirenie vozmozhnostei primeneniia plastmass v konstruktssiakh  
mashin. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry,  
1959. 183 p. (MIRA 13:3)

(Plastics)

(Machinery industry)



PODSHIVALOV, R.N.; SUSLOV, N.I.; KOVALENKO, A.V., inzh., red.;  
DUGINA, N.A., tekhn.red.

[Machine parts made of capron] Kapronovye detali mashin.  
Pod red. A.V.Kovalenko. Moskva, Mashgiz, 1961. 39 p.  
(MIRA 15:2)

(Nylon) (Machinery--Construction)

SUSLOV, Nikolay Ivanovich; PLUTALOV, L.V., retsenzent; BOGOSLAVETS,  
N.P., tekhn. red.

[Plastic materials as substitutes for metals] Zamena metallov  
plastmassami. Moskva, Mashgiz, 1962. 201 p. (MIRA 15:8)  
(Metals, Substitutes for) (Plastics)

PHASE I BOOK EXPLOITATION

SOV/6077

Suslov, Nikolay Ivanovich

Zamena metallov plastmassami (Substituting Plastics for Metals) Moscow, Mashgiz, 1962. 201 p. 22,000 copies printed.

Reviewer: L. V. Plutalov; Tech. Ed.: N. P. Bogoslavets; Exec. Ed. (Ural-Siberian Division, Mashgiz): T. M. Somova, Engineer.

PURPOSE: This book is intended for technical personnel in the machine and plastics industries.

COVERAGE: The book reviews problems in the substitution of plastics for metals in standard machine elements. Plastic parts are classified according to purpose and structural conditions. [For example, a part designated AN is intended for use in aggressive, high-temperature, or liquid media (A), under conditions of loading (N). An extensive table (pp. 8-33) includes materials of "A" classifica-

Card 1/8 Z

Substituting Plastics for Metals

SOV/6077

tion.] Methods of preparing parts from cast or molded materials or from finished plastics are described. The discussion also includes such specialized methods as vacuum forming, spraying, and coating of articles with polymers in fluidized beds. Practical recommendations on constructing press molds, on determining the effective construction of parts, and on choosing the strength, technical parameters, and methods of manufacture of plastic machine elements are given. No personalities are mentioned. There are 21 references, all Soviet.

TABLE OF CONTENTS [Abridged]:

Foreword

3

Ch. I. Classification of Machine Parts According to Purpose and Structural Designation

6

Card 2/7 2

Nonmetallic Materials (Cont.)

SOV/6417

Trade names, GOST designations, properties, and applications are given in tabular form for plastics, adhesives, varnishes, dyes, oils, and chemicals. The book deals primarily with plastics, which are divided into seven classes. Chapter I was compiled by Engineer N.I.Suslov; Chapter II, by Candidate of Technical Sciences A.D.Grigor'yev and Engineer I.V.Pimenov; Chapter III, by Engineer V.I.Susorova; Chapter IV, by Engineers E.P.Krestnikov, V.I.Morot'skaya, and T.V.Basargina; and Chapter V, by Engineer P.A. Zaytsev. There are 84 references: 83 Soviet and 1 English.

TABLE OF CONTENTS:

Preface	5
Ch. I. Plastics	7
Ch. II. Adhesives	151

Card 2/3

SUSLOV, N.N., kand. tekhn.nauk.

Measuring pressure of the beater on a strand of yarn in picking  
machines. Tekst.prom. 17 no.12:13-15 D '57. (MIRA 11:1)

1.Dotsent Kostromskogo tekstil'nogo instituta.  
(Spinning machinery)

SUSLOV, N.N.

Investigating air currents in the scutching area of double-action  
flax machines. Izv. vys. ucheb. zav.; tekhn. tekst. prom. no. 3:47-  
61 '58.. (MIRA 11:7)

1. Kostromskiy tekstil'nyy institut.  
(Textile factories--Heating and ventilation)  
(Flax)

SUSLOV, N.N.

Required capacity for scutching drums. Izv. vys. ucheb. zav.;  
tekh. tekst. prom. no. 3:75-81 '58. (MIRA 11:?)

1. Kostromskiy tekstil'nyy institut.  
(Textile machinery)



SUSLOV, N.N.

Experimental investigation of flax fiber tension during scutching  
on a double action machine. Izv.vys.ucheb.sav.; tekhn.tekst.prom.  
no.4:50-60 '58. (MIRA 11:11)

1. Kostromskoy tekstil'nyy institut.  
(Flax--Testing)

SUSLOV, N.N.

For a further lowering of construction costs. Transp. stroi. 8  
no.11:20-22 N '58. (MIRA 12:1)

1. Nachal'nik tresta Sevzapmorgidrostroy.  
(Construction industry--Costs)

SUSLOV, Nikolay Nikolayevich; LEVITSKIY, Igor' Nikolayevich; MAKEYEVA,  
V.S., red.; SEGAL', N.M., red.; MEDVEDEV, L.Ya., tekhn.red.

[Equipment assembly and repair in enterprises for the primary  
processing of bast fibers] Montazh i remont oborudovaniia  
zavodov pervichnoi obrabotki lubiannykh volokon. Moskva, Gos.  
nauchno-tekhn.izd-vo lit-ry po legkoi promyshl., 1959. (MIRA 13:4)

(Textile machinery)

SUSLOV, N.N.; BARBAKOV, M.M.

Using an electric strain gauge for the study of the breaking  
process. Izv.vys.ucheb.zav.; tekhn.tekst.prom. no.1:75-78 '59.  
(MIRA 12:6).

1. Kostromskoy tekstil'nyy institut.  
(Strain gauges)  
(Textile machinery--Testing)

SUSLOV, N.N.; TURILOVA, I.A.

Analysis of phenomena occurring in the roller card of the TG-  
135-L shaker machine. Izv.vys.ucheb.zav.; tekhn.tekst.prom.  
no.6:23-29 '59. (MIRA 13:4)

1. Kostromskoy tekstil'nyy institut.  
(Flax processing machinery)

SUSLOV, N.N.; BARBAKOV, M.M.

Forces acting on the material in the crushing area of the fluted rollers  
of the breaker. Izv. vys. ucheb. zav.; tekhn. tekst. prom. no. 4:50-54 '60.  
(MIRA 13:9)

1. Kostromskoy tekstil'nyy institut.  
(Flax processing machinery)

MARKOV, Valentin Vasil'yevich; SUSLOV, Nikolay Nikolayevich; TRIFONOV, Vadim Georgiyevich; ANDREYEV, V.V., retsenzent; ARIFKHANOV, U.Kh., retsenzent; ARNO, A.A., retsenzent; DERBENEV, S.I., retsenzent; SHUSHKIN, A.A., retsenzent; MAKEYEV, V.S., nauchnyy red.; DUKHOVNIY, F.N., red.; SHAPENKOVA, T.A., tekhn. red.

[Primary processing of bast fibers] Pervichnaia obrabotka ~~1~~  
biannykh volokon. Moskva, Gos. izd-vo "Rostekhzdat," 1961.  
463 p. (MIRA 15:4)

(Textile fibers)

(Textile machinery)

SUSLOV, N.N.

Energy expended by scutchers for flax scutching. Izv. vys.ucheb.zav.;  
tekh.tekst.prom. no.6:136-139 '61. (MIRA 15:1)

1. Kostromskoy tekstil'nyy institut.  
(Textile machinery--Testing)



SUSLOV, N.N.

Dependence of the percentage of fiber yield from the machine upon the number of actions and the speed of the movement of the beater blades in flax scutching. Izv.vys.ucheb.zav.; tekhn.tekst. prom. no.1:39-48 '63. (MIRA 16:4)

1. Kostromskoy tekhnologicheskii institut.  
(Flax processing machinery)

SUSLOV, N.Ya., inzhener.

Simplification and standardization of road machinery instituted by  
the Minsk Central Design Office of the Main Administration of  
Road Machinery Construction. Stroi. i dor. mashinostr. 1 no.4:15-  
17 Ap '56. (MIRA 10:1)

(Road machinery--Standards)

S/0258/64/004/003/0545/0548

ACCESSION NR: APL043530

AUTHOR: Suslov, O. N. (Moscow)

TITLE: The motion of a flat plate with supersonic viscous flow in the presence of a transverse magnetic field

SOURCE: Inzhenernyy zhurnal, v. 4, no. 3, 1964, 545-548

TOPIC TAGS: fluid mechanics, gas dynamics, supersonic flow, viscous flow, magnetic field, heat emission, boundary layer, shock wave

ABSTRACT: A solution is presented for the problem of flat plate motion through a viscous gas at supersonic speed, taking into account the interaction of the shock wave with the boundary layer and also considering the presence of a transverse magnetic field. The first flow region considered was nonviscous flow. Starting with the equations of gas dynamics (in two dimensions), the gas equation of state, shock wave boundary conditions, and the equation describing the shock wave, the author derived the expressions

$$\frac{p}{p_0} = p^* = q_0 \left( \frac{x}{L} \right)^{-1/2} + q_1 + O \left[ \left( \frac{x}{L} \right)^{1/2} \right],$$

$$\frac{v_0}{U} = 0.444 \theta x^{-1/2} \left[ 1 + x^{1/2} \left( 5.498 \alpha - \frac{5.248}{M^2 \theta^2} \right) + \dots \right],$$

Card 1/2

ACCESSION NR: AP4043530

relating stream velocity  $U$ , pressure  $p_0$  (ambient) and  $p$  (disturbed), with the shock wave equation. In the expressions,  $M = U/\alpha_0 \gg 1$  indicates supersonic speed ( $\alpha_0$  = speed of sound),  $x$  and  $y$  are coordinate directions, and

$$q_1 = 0.393 M^2 v^2 (6.884 \alpha - 4.778/M^2), \quad q_0 = 0.393 M^2 v^2 L^{-1/2},$$

where  $\theta$  and  $\alpha$  are parameters of the shock wave equation as derived by S. I. Rey and S. R. Shen (Obtekanie naklonnogo klina giperzvukovykh vyazkim potokom pri nalichii teploobmena. V sb. "Problema pogranichnogo sloya i voprosy teplootdachi." Gosenergoizdat, 1960). The existence of the magnetic field is introduced mathematically, and relationships are derived describing the boundary layer of flow. Considerations of gas conductivity, temperature, and heat emission functions are included. The dependence of local surface friction and heat emission coefficients upon distance are plotted with various conditions of temperature function, density, gas conductivity, and magnetic field intensity as parameters. Orig. art. has: 42 equations and 3 figures.

ASSOCIATION: none

SUBMITTED: 16Mar63

SUB CODE: EM, ME

Card 2/2

NO REF SOV: 001

ENCL: 00

OTHER: 001

SUSLOV, O.N.

Calculating the strengthening of welded joints of metal elements  
by hard facing under pressure. Prom. stroi. 41 no.6:27-30 Je '64.  
(MTRA 17:9)

L 5374-66

ACC NR: AP5024581

SOURCE CODE: UR/0292/65/000/009/0035/0036

AUTHOR: Kraytsberg, M. I. (Candidate of technical sciences); Oskerko, B. F. (Engr.);  
Suslov, O. N. (Engr.); Kaganovskiy, S. A. (Engr.)

ORG: none

TITLE: Electric-power generator with reciprocating motion

SOURCE: Elektrotehnika, no. 9, 1965, 35-36

TOPIC TAGS: electric power generator, reciprocating generator

ABSTRACT: The principle of operation of the electric-power generator with a reciprocating motion is explained. Some experimental datae obtained from a 500-w laboratory model of a variable-reluctance generator are reported. These findings are offered: (1) Unlike in the conventional a-c generators, the emf and maximum output power in a variable-reluctance reciprocal generator increase up to an optimal point and then fall off with the increasing excitation current; (2) There is an optimal value of the height of the moving core which corresponds to a maximum output power; (3) The generator capacity is proportional to the fill factor of the moving core; (4) With the fill factor exceeding a certain value, the relation

Card 1/2

UDC: 621.313.12

0901 1140

L 5374-66

ACC NR: AP5024581

between the position of the moving core and the resulting flux becomes nonlinear which causes considerable ripple in the excitation current; (5) At 33 cps, the required amount of active materials is high; hence, generators designed for 75-100 cps deem desirable. Orig. art. has: 4 figures, 3 formulas, and 1 table. 8

SUB CODE: EE/ SUBM DATE: 00/ ORIG REF: 000/ OTH REF: 000

OC  
Card 2/2

L 32814-66 EWT(m)/EWP(v)/EWP(k)/T/EWP(t)/ETI JD/HM	
ACC NR: AR6005806	SOURCE CODE: UR/0137/65/000/010/E004/E004 38 B
AUTHOR: <u>Suslov, O. N.</u>	
TITLE: Determination of the plasticity zone in a weld reinforced by surfacing under load	
SOURCE: Ref. zh. Metallurgiya, Abs. 10E26	
REF SOURCE: Sb. Inzh. konstruktssii Dokl. k XXIII Nauchn. konferentsii. Leningr. inzh.-stroit. in-ta. L., 1965, 48-51	
TOPIC TAGS: plasticity, seam welding, welding, welding technology, metal surfacing	
ABSTRACT: On the basis of the thermal-processing theory developed by <u>N. N. Rykalin</u> , corresponding member, AN SSSR, problems of determining the plasticity zone of a weld reinforced by surfacing under a load have been investigated with calculation of the dependence of the plasticity zone on <u>welding</u> conditions and thermophysical characteristics of the weld. F. Fomenko. [Translation of abstract.] [NT]	
SUB CODE: 11/ 13/	SUBM DATE: none
Card 1/1 87	UDC: 621.791.001:536.12:621.791.75



SUSLOV, O. V.

"Utilization of the Circuit Currents Method for Detecting Short Circuits in Complex Circuit," Elek. Stan., No. 3, 1949; "Combination Circuit for the Automatic Connection of Reserve Power (AVR) and Automatic Reclosing (APV) for Use in Electric Power Stations," ibid, No. 7, 1950.

USSR/Electricity - Automatic Equipment Jul 50  
Power Stations

"Combination Circuit for the Automatic Connection of Reserve Power (AVR) and Automatic Reclosing (APV) for Use in Electric Power Stations," O. V. Suslov, Engr

"Elek Stants" No 7, pp 41-43

PA 162T28  
Describes present operating system in which the AVR functions on all occasions when bus bars are disconnected for internal use, including case where they are short circuited. Points out dangers of this system and proposes new system  
162T28

USSR/Electricity - Automatic Equipment Jul 50  
(Contd)

where the AVR and APV are used in combination. Editor notes such a system is recommended in "Instructional Handbook of the Technical Division, Ministry of Electric Power Plants, Electrical Section," Gosenergoizdat, 1950

162T28

SUSLOV, O. V.

SUSLOV, O.V., inzhener.

Synchronizing scheme for line switches. Elek.sta. 24 no.7:36-37 JI '53.  
(MLRA 6:7)  
(Electric switchgear)

SUSLOV, O. V.

Suslov, O. V. -- "Filter Reactance (Interference) Elimination." Min Higher Education USSR, Moscow Order of Lenin Power Engineering Institute imeni V. M. Molotov, Moscow, 1954 (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis', No. 23, Moscow, Jun 55, pp 87-104

*Suslov, O.V.*

AID P - 2070

Subject : USSR/Electricity

Card 1/1 Pub. 26 - 12/29

Author : Suslov, O. V., Eng.

Title : ~~USSR/Electricity~~  
Nomogram determining the maximum load of a transmission line in accordance with the distance protection level

Periodical: Elek. sta., 4, 40-42, Ap 1955

Abstract : The article shows the use of the nomogram for determining the value of load-current for setting protective relays. Two diagrams are given.

Institution: None

Submitted : No date

SUSLOV, O.V., kand. tekhn. nauk.; FILIN, S.M., inzh.

Self-starting of auxiliary-supply electric motors during the automatic  
switching of standby power. Elek. sta. 29 no.10:89-92 0 '58. (MIRA 11:11)  
(Electric motors)

SUSLOV, O.V., kand. tekhn. nauk

Utilization of the N-11 automatic oscillograph in power systems.  
Elek. sta. 29 no. 11:86-87 N '58. (MIRA 11:12)  
(Oscillograph)

SUSLOV, O.V., and .tekhn.nauk

Evaluation of the unbalance currents in the differential protection  
of electric transformers. Elek.sta.33 no.1:87 Ja '62. (MIRA 15:3)  
(Electric transformers)(Electric protection)



SUSLOV, O.V., kand.tekhn.nauk

Choice of electric current protection systems with consideration  
of the self-starting features of the load. Elek. sta. 33 no.4:72-74  
Ap '62. (MIRA 15:7)  
(Electric protection) (Electric power distribution)

SUSLOV, O.V., kand.tekhn.nauk

Faulty operation of high-voltage busbars. Elek. sta. 35 no.  
4:83-84 Ap '64. (MIRA 17:7)

SUSLOV, O.V., kand. tekhn. nauk

Measures for partial phase disconnection of units. Elek.  
sta. 36 no.9:40-42 S '65. (MIRA 18:9)

SUSLOV, O.V., kand.tekhn.nauk

Defects of the overvoltage protection circuits of power transformers.

Elek. sta. 36 no.10:88 0 '65.

(MIRA 18:10)

1952, T. A.

Textile industry and fashion

Adjustable patterns in making calico., Tekst. prom., no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1952, Uncl.  
2

SUSLOV, P. G.

Bee Culture

Establishing two-body beehives Pchelovodstvo 29, no. 6, June 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

SUSLOV, P.V.

BOGUSLAVSKIY, B.L.; ROSTOVTSEV, I.A., inzhener, laureat Stalinskoy premii, retsenzent; RUKOVISHNIKOV, V.I., inzhener, retsenzent; OKHLYAND, A.B., inzhener, nauchnyy redaktor; SUSLOV, P.V., inzhener, redaktor; RAKOV, S.I., tekhnicheskiy redaktor

[Automatic and semiautomatic lathes] Tokarnye avtomaty i poluavtomaty. Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervizdat, 1954.  
367 p. (MLRA 7:10)

(Lathes)

SUSLOV, P.V.

RASKATOV, A.I., dotsent; GALKIN, Yu.M., dotsent, kandidat tekhnicheskikh nauk, retsenzent; YEGOROV, V.V. [deceased], dotsent, kandidat tekhnicheskikh nauk, retsenzent; KHEBODAROV, S.F., inzhener, retsenzent; MAYKOPAR, M.B., dotsent, kandidat tekhnicheskikh nauk, nauchnyy redaktor; KOPTEVSKIY, D.Ya., redaktor; SUSLOV, P.V., redaktor literatury po metalloobrabatyvayushchim professiyam, inzhener; RAKOV, S.I., tekhnicheskiiy redaktor.

[Problems in electrical engineering, electrical measurement, electric machinery, and electrical equipment] Zadachnik po elektrotekhnike, elektricheskim izmereniyam, elektricheskim mashinam i elektrooborudovaniyu. Moskva, Vses. uchebno-pedagog. izd-vo Trudreservizdat, 1954. 413 p. (MLRA 7:11)

(Electric engineering--Problems, exercises, etc.)



SUSLOV Petr Vasil'yevich, inzhener-mekhanik; TURCHANINOV, A.A.,  
inzhener, redaktor; UVAROVA, A.F., tekhnicheskiiy redaktor

[Forges and presses] Kuznechno-pressovoe oborudovanie. Moskva,  
Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 420 p.  
(MLRA 10:4)

(Forging machinery)

VINOGRADOV, Nikolay Vladimirovich; SUSLOV, R.V., redaktor; OSTRIROV, N.S.,  
tekhnicheskii redaktor.

[Electrician for repairing and installing industrial electrical  
equipment] Elektroslesar' po remontu i montazhu promyshlennogo  
elektrooborudovaniia. Izd.3-e, perer.i dop. Moskva, Vses.uchebno-  
pedagog.izd-vo Trudrezervizdat, 1957. 271 p. (MIRA 10:10)  
(Electric engineering)

MEDVEDYUK, Nikolay Ivanovich; SUSLOV, Petr Vasil'yevich

[Collective farm smith; with qualifications of mechanic,  
tinsmith, and coppersmith] Kolkhoznyi kuznets; s kvalifikatsiei  
slesaria, zhestianshchika i mednika. Moskva, Trudrezervizdat,  
1959. 346 p. (MIRA 13:7)  
(Blacksmithing)

L 42033-65

ACCESSION NR: AP5010955

UR/0286/65/000/007/0133/0134

AUTHORS: Sumarokov, L. N.; Popov, Yu. A.; Suslov, R. M.

TITLE: Parallel summator. Class 42, No. 169886

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 133-134

TOPIC TAGS: summator

ABSTRACT: This Author Certificate presents a parallel summator (see Fig. 1 on the Enclosure). To reduce the summation time, it contains a transfer network in two groups, each consisting of two transfer lines. The summator digits corresponding to these groups, which are necessary for performing the digital operations under the stored codes, are connected to the transfer lines. The number of codes in the lines for each group corresponds to the cases of the presence and absence of the transfer signal into the lowest digit of this group. The leading digits of the transfer lines of all groups are connected to the inputs of logic circuits for code selection from the corresponding transfer line of the following group. Orig. art. has: 1 diagram.

ASSOCIATION: none

Card 1/1

SUBMITTED 11 JUL 63

SUSLOV, S.A.

Device for grooving nails. Sel'khornashina no.6:32 Je '57.  
(MIRA 10:7)

(Nails and spikes)

1. SUSLOV, S. A.

2. USSR (600)

4. Honeysuckle

7. Rapid stratification of Tatar honeysuckle seed, Les. khoz. 6 No. 1,  
1953

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

- |   |                                 |   |
|---|---------------------------------|---|
| 1. SUSLOV, S. A.                                  |                                 |   |
| 2. USSR (600)                                     |                                 |   |
| 4. Painting, Industrial                           |                                 |   |
| 7. Mechanized spatula.                            | Stan. 1 instr. 23 no. 11, 1952. |   |
| 9. <u>Monthly List of</u><br><u>Unclassified.</u> | <u>Russian Accessions</u> ,     | Library of Congress, <u>March</u> 1953. |

SUSLOV, S. A.

Chucks

Draw-in chuck for lathes. Sel'khoz mashina No. 6, 1952

Monthly List of Russian Accessions. Library of Congress, September 1952 UNCLASSIFIED



- |  |  |  |
|--|--|--|
| 1. GUSLOV, G. A  |  |  |
| 2. USSR (600)  |  |  |
| 4. Drilling and Boring Machinery                                     |  |  |
| 7. Countersink with an internal guide. Sel'khoz Mashina No. 3, 1953. |  |  |

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

SUSLOV, S.A.

New method of reconditioning hard-alloy reamers and countersinks. Sel'khoz-  
mashina no. 9:31 S '53. (MLA 6:9)

(Reamers) (Grinding and polishing)

SUSLOV, S.A.

Damping the vibration in the vortical cutting of long threads.  
Sel'khozmaschina no.8:29-31 Ag '56. (MLRA 9:10)

(Screw cutting)

AUTHOR:  
TITLE:

SHEVCHIK, V.N., SUSLOV, S.A., ZHARKOV, YU.D.  
On the Investigation of a Special Type of reflecting Clystron  
(Issledovaniya otrazhatel'nogo klistrona spetsial'nogo tipa.  
Russian).

PERIODICAL:

Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 2, pp 377 - 386 (U.S.S.R.)  
Received: 3 / 1957  
Reviewed: 4 / 1957.

ABSTRACT:

The present work deals with the theoretical and experimental investigation of a special type of reflecting clystron which works with large angles of flight in the space of interaction. First the efficiency of the clystron is dealt with. Computation of efficiency must be carried out in consideration of the modulation of current density. The general equation for active effectivity  $\eta$  is derived. If, however, the modulation of the current according to density is neglected, a formula is in this case obtained, which is generally regarded as basic for the theory of the reflecting clystron and which, in the case of the neglect of the modulation with respect to density in the resonator, can be used for determining efficiency. For large angles of flight, i.e. if modulation according to density is considerable, the first general formula must be used. Besides the "clystron-effect", which is determined by these equations, also the so-called diode-effect must be taken into account when computing efficiency, which is connected with the output or yield of high frequency

Card 1/2